

Appl. No. 09/831,480
Atty. Docket No. 7368
Amtd. dated April 1, 2003
Reply to Office Action of March 11, 2003

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-28 (Previously Cancelled)

Claims 29-85 (Currently Cancelled)

Claim 86. (Previously Added) A cleaning implement, comprising:

W01
a handle;
a support head pivotally attached to said handle;
a cleaning substrate removable attached to the support head, wherein said cleaning substrate has an absorbent capacity of at least about 5 g/g; and
a liquid delivery system for providing a cleaning liquid to a surface to be cleaned, wherein said liquid delivery system is configured to spray at least about 2 mils/sec of a cleaning liquid.

Claim 87. (Previously Added) The cleaning implement of claim 86, wherein said liquid delivery system is configured to spray the cleaning liquid onto a surface with a spray efficiency of at least about 0.000006 mils/(sec x cm² x g/g).

Claim 88. (Previously Added) The cleaning implement of claim 86, wherein said cleaning substrate has a squeeze-out value of no more than about 40%.

Claim 89. (Previously Added) The cleaning implement of claim 88, wherein said liquid delivery system is configured to spray the cleaning fluid on to a surface with a cleaning efficiency of at least about 0.0006 mils/(sec x cm² x unit squeeze-out).

Claim 90. (Previously Added) The cleaning implement of claim 86, wherein the liquid delivery system is configured to spray the liquid onto a surface with a spray efficiency of at least about 0.0002 mils/(sec x cm²).

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Claim 91. (Previously Added) The cleaning implement of claim 86, wherein the liquid delivery system comprises a spray nozzle, a pump in fluid communication with said spray nozzle, an electric motor driving said pump, a voltage source powering said motor, and a liquid filled canister in fluid communication with said pump.

Claim 92. (Previously Added) The cleaning implement of claim 91, wherein the spray nozzle is configured to provide a spray angle of at least about 30 degrees.

Claim 93. (Previously Added) The cleaning implement of claim 92, wherein the said spray nozzle is configured to provide an average particle size of at least about 100 μm .

Claim 94. (Previously Added) The cleaning implement of claim 91, wherein said spray nozzle is configured to provide an exit velocity of at least about 0.009 cm/sec.

Claim 95. (Previously Added) The cleaning implement of claim 91, wherein said voltage source is a plurality of batteries and wherein said batteries are configured to provide a voltage of at least about 1.5 volts.

Claim 96. (Previously Added) The cleaning implement of claim 95, wherein said voltage is supplied for at least about 5 minutes of continuous pump operation.

Claim 97. (Previously Added) The cleaning implement of claim 91, wherein said pump is configured to spray the cleaning liquid at a spray nozzle inlet pressure of 6 Kpa.

Claim 98. (Previously Added) The cleaning implement of claim 91, wherein said pump has an efficiency of at least about 3%.

Claim 99. (Previously Added) The cleaning implement of claim 91, wherein said motor has an efficiency of at least about 50%.

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Claim 100. (Previously Added) The cleaning implement of claim 86, wherein said liquid delivery system is configured to provide a spray pattern having a spray depth of at least about 20 cm.

Claim 101. (Previously Added) The cleaning implement of claim 100, wherein said liquid delivery system is configured to provide a spray pattern having a spray width of at least about 20cm.

Claim 102. (Previously Added) The cleaning implement of claim 86, wherein said handle has a deflection of less than about 15 mm.

→ Claim 103. (Previously Added) A cleaning implement, comprising:

a handle;
a support head pivotally attached to said handle;
a cleaning substrate removeably attached to the support head; and
a hand-held liquid sprayer removeably attached to the cleaning implement for dispensing a liquid onto a surface to be cleaned.

Claim 104. (Previously Added) The cleaning implement of claim 103, wherein said hand-held liquid sprayer is stored within a cage attached to said handle.

Claim 105. (Previously Added) The cleaning implement of claim 103, wherein said hand-held liquid sprayer further comprises a cleaning liquid.

Claims 106-112 (Currently Cancelled)

Claim 113. (Previously Added) The cleaning implement of claim 86, further comprising a scrubbing strip.

Claim 114. (Previously Added) The cleaning implement of claim 113, wherein said scrubbing strip is attached to said mop head.